Intelligent Stick™ mini

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Revision History

Revision	Date	History	Remark
A.0	’08.04.1	New Creation	

Important!! Please make sure the driver matches the part number on your pen drive before you download.
Software AP System Requirements. One of following operation systems: Windows 98/98SE/Windows ME/Windows 2000/Windows XP
The advertised memory capacity of this device represents unformatted capacity. Please note that once formatted and due to variations in flash module block limitations, the functional storage space will be lower than the advertised capacity.
“PQI reserves the right to make changes without notification when fit, form, function, quality and reliability are not affected. The data sheets do not constitute contract documents and should not be considered part of the specification for purposes of any warranty.”

1. Introduction to i810

Enclosed in a compact futuristic metallic casing and employing a pen-like push and pop mechanism, PQI's **i810Plus** offers great data protection and high portability, allowing you to easily store and move files in a device no bigger than a pocketknife. Easy to use personal file management software designed for data security and management of your personal data.

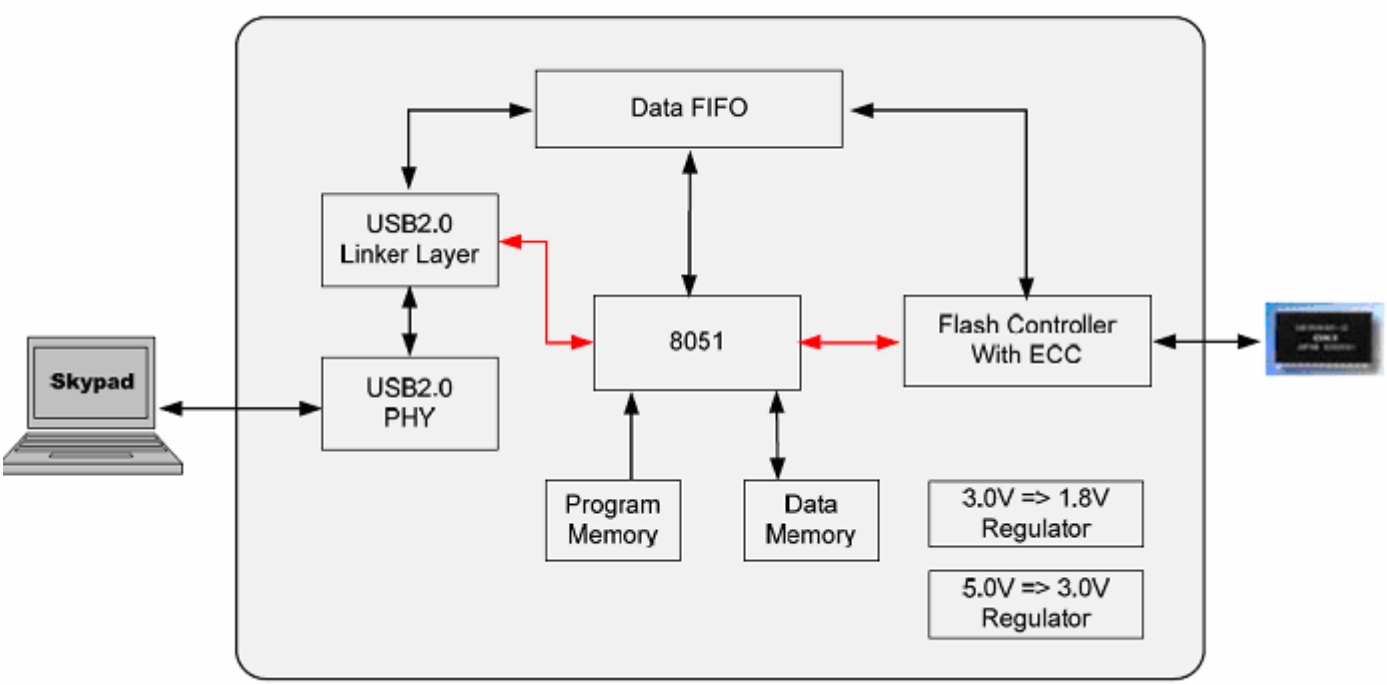
2. Main Features

- PQI's patented Intelligent Stick™ interface USB 2.0 compatible
- Its small size marking it easy to carry and store
- Mobile USB flash drive, USB 2.0 compatible
- Hot swappable, USB Plug & Play compatible
- Multimedia and data storage
- Built-in personal customizable software：security and partition software

3. Product Specification

USB Interface	High-speed USB 2.0 interface; backward compatible with USB 1.1	
NAND Flash Interface	Integrated ECC circuits for 8-bit error correction	
OS Support	No drive is required for Windows ME, 2000,XP or Mac OS 9.x	
Environment		
Temperature	Operating	0℃ to 65℃
	Non-Operating	-20℃ to 75℃
Vibration	Operating	0.2G
	Non-Operating	15G
Shock resistant	Operating	150G
	Non-Operating	1000G
Configuration		
Capacity		1GBytes ~ 16GBytes
Reliability		
MTBF(@25℃)		1,000,000 hours
Power Requirement		
Voltage		DC 3.3/5V ± 10%
Power Consumption		
Read		<100mA
Write		<100mA
Standby		<70mA
Un-configuration		<70mA
Suspend		<0.5mA

4. Block Diagram



5. Absolute Maximum Ratings

Symbol	Parameter	Min	Max	Unit
Tstorage	Storage Temperature	-55	125	℃
Ta	Ambient Operating Temperature	0	75	℃
Vcc3	3.3V Supply Voltage	-0.3	3.6	V
Vcc18	1.8V Supply Voltage	-0.3	2	V
Vin3.3	3.3V Buffer Input Voltage	-0.3	3.6	V
Vin3/5	3.3V/5V Buffer Input Voltage	---	5.25	V
Vin1.8	1.8V Buffer Input Voltage	-0.3	2	V

6. DC Characteristics

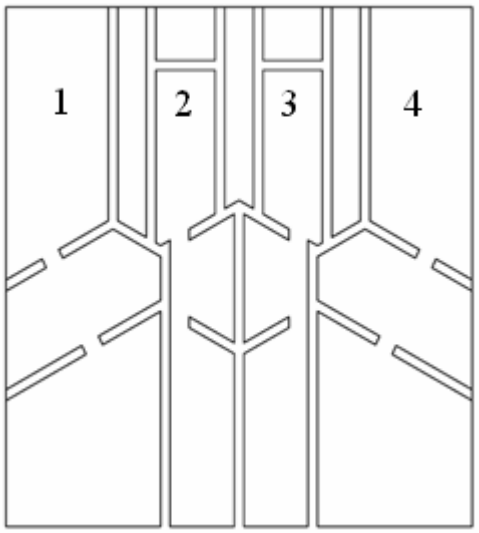
Symbol	Parameter	Min.	Typical	Max.	Units
V_{DD}	Supply voltage for VCC3 or VCC3A	3.0	3.3	3.6	V
V_{DD18}	Regulator output voltage for VCC or VCCA	1.62	1.8	1.98	V
V_{IL}	Input Low Voltage	Vss-0.3		0.25Vcc	V
V_{IH}	Input High Voltage	0.625Vcc		Vcc+0.3	V
V_{OL}	Output Low Voltage (IOL=4mA)			0.125Vcc	V
V_{OH}	Output High Voltage (IOH=4mA)	0.75Vcc			V
C_{IN}	Input pin capacitance			10	pF
I_{DD}	Supply current		50		mA
I_{SUS}	Suspend current (D+1.5KΩ)			300	uA

7. Recommended Operating Conditions

Symbol	Parameter	Min.	Typical	Max.	Units
V_{CC33}	Power Supply Voltage	3.0	3.3	3.3	V
V_{IN}	Input Voltage	0	Vcc	Vcc + 0.3	V
V_{CC25}	Internal Power Support	2.25	2.50	2.75	V

8. Pin Assignments

Pin No.	Pin Name	Function
1	VCC	USB power input
2	USB D-	USB differential signal
3	USB D+	The pairs are used to transmit Data/Address/Command
4	VSS	Ground



9. Physical Specifications

9.1 Dimensions:

9.1.1 Height: 34.8mm

9.1.2 Width: 15.2mm

9.1.3 Depth: 5.2mm

9.2 Outline of top view